



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

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**DATA MATRIX**

Date Oct. 29, 2018

EPA Reg No./File Symbol 92044-

Page 1 of 20

Applicant's/Registrant's Name & Address CAC Chemical Americas, LLC  
7 Castle View Court  
Rye Brook, NY 10573

Product  
CAC Etoxazole Technical

Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
<b>PRODUCT SPECIFIC DATA REQUIREMENTS</b>					
830.1550	Product identity and composition	50621401	CAC Chemical Americas, LLC	OWN	
830.1600	Description of Materials Used to Produce the Product	50621401	CAC Chemical Americas, LLC	OWN	
830.1620	Description of the Production Process	50621401	CAC Chemical Americas, LLC	OWN	
830.1650	Description of the Formulation Process				Not Required <sup>1</sup>
830.1670	Discussion of Formation of Impurities	50621401	CAC Chemical Americas, LLC	OWN	
830.1700	Preliminary Analysis	50621402	CAC Chemical Americas, LLC	OWN	
830.1750	Certified Limits	50621401	CAC Chemical Americas, LLC	OWN	
830.1800	Enforcement Analytical Method	50621402	CAC Chemical Americas, LLC	OWN	
830.6302	Color	50621403	CAC Chemical Americas, LLC	OWN	
830.6303	Physical State	50621403	CAC Chemical Americas, LLC	OWN	
830.6304	Odor	50621403	CAC Chemical Americas, LLC	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals and Metal Ions	50621403	CAC Chemical Americas, LLC	OWN	
830.6314	Oxidation/Reduction: Chemical Incompatibility	50621403	CAC Chemical Americas, LLC	OWN	
830.6315	Flammability	50621404	CAC Chemical Americas, LLC	OWN	Waiver <sup>2</sup>
830.6316	Explosibility	50621404	CAC Chemical Americas, LLC	OWN	Waiver <sup>3</sup>
830.6317	Storage Stability	50621403	CAC Chemical Americas, LLC	OWN	
830.6319	Miscibility	50621404	CAC Chemical Americas, LLC	OWN	Not Required <sup>4</sup>
830.6320	Corrosion Characteristics	50621403	CAC Chemical Americas, LLC	OWN	
830.6321	Dielectric Breakdown Voltage				Not Required <sup>5</sup>
830.7000	pH	50621403	CAC Chemical Americas, LLC	OWN	

Signature

Name and Title

Ann M. Tillman | Regulatory Consultant

Date

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Applicant's/Registrant's Name & Address CAC Chemical Americas, LLC 7 Castle View Court Rye Brook, NY 10573	Product CAC Etoxazole Technical	
Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA REQUIREMENTS					
			CAC Chemical Americas, LLC	OWN	
			CAC Chemical Americas, LLC	OWN	
			CAC Chemical Americas, LLC	OWN	
					Not Required <sup>1</sup>
			CAC Chemical Americas, LLC	OWN	
			CAC Chemical Americas, LLC	OWN	
			CAC Chemical Americas, LLC	OWN	
			CAC Chemical Americas, LLC	OWN	
			CAC Chemical Americas, LLC	OWN	
			CAC Chemical Americas, LLC	OWN	
			CAC Chemical Americas, LLC	OWN	
			CAC Chemical Americas, LLC	OWN	
			CAC Chemical Americas, LLC	OWN	
			CAC Chemical Americas, LLC	OWN	
			CAC Chemical Americas, LLC	OWN	Waiver <sup>2</sup>
			CAC Chemical Americas, LLC	OWN	Waiver <sup>3</sup>
			CAC Chemical Americas, LLC	OWN	
			CAC Chemical Americas, LLC	OWN	Not Required <sup>4</sup>
			CAC Chemical Americas, LLC	OWN	
					Not Required <sup>5</sup>
			CAC Chemical Americas, LLC	OWN	

Signature 	Name and Title Ann M. Tillman   Regulatory Consultant	Date Oct. 29, 2018
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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7050	UV/Visible Absorption	50621403	CAC Chemical Americas, LLC	OWN	
830.7100	Viscosity	50621404	CAC Chemical Americas, LLC	OWN	Not Required <sup>6</sup>
830.7200	Melting Point/Melting Range	50621403	CAC Chemical Americas, LLC	OWN	
830.7220	Boiling Point/Boiling Range	50621404	CAC Chemical Americas, LLC	OWN	Not Required <sup>7</sup>
830.7300	Density/Relative Density/Bulk Density	50621403	CAC Chemical Americas, LLC	OWN	
830.7370	Dissociation Constants in Water	50621404	CAC Chemical Americas, LLC	OWN	Waiver <sup>8</sup>
830.7520	Particle size, fiber length, and diameter distribution	50621404	CAC Chemical Americas, LLC	OWN	Waiver <sup>9</sup>
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	50621403	CAC Chemical Americas, LLC	OWN/PL	
830.7560	Partition Coefficient (n-octanol/water), Generator Method				See 830.7550
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography				See 830.7550
830.7840	Water Solubility: Column Elution Method, Shake Flask Method	50621403	CAC Chemical Americas, LLC	OWN	
830.7860	Water Solubility: Generator Column Method				See 830.7840
830.7950	Vapor Pressure	50621403	CAC Chemical Americas, LLC	OWN/PL	
870.1100	Acute oral toxicity – rat	45089919		OLD	See endnote <sup>10</sup>
870.1200	Acute dermal toxicity – rat	45089921		OLD	See endnote <sup>11</sup>
870.1300	Acute inhalation toxicity – rat	45089923		OLD	See endnote <sup>12</sup>
870.2400	Eye irritation	45089925		OLD	See endnote <sup>13</sup>
870.2500	Skin irritation	45089927		OLD	See endnote <sup>14</sup>

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

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			CAC Chemical Americas, LLC	OWN	
			CAC Chemical Americas, LLC	OWN	Not Required <sup>6</sup>
			CAC Chemical Americas, LLC	OWN	
			CAC Chemical Americas, LLC	OWN	Not Required <sup>7</sup>
			CAC Chemical Americas, LLC	OWN	
			CAC Chemical Americas, LLC	OWN	Waiver <sup>8</sup>
			CAC Chemical Americas, LLC	OWN	Waiver <sup>9</sup>
			CAC Chemical Americas, LLC	OWN/PL	
					See 830.7550
					See 830.7550
			CAC Chemical Americas, LLC	OWN	
					See 830.7840
			CAC Chemical Americas, LLC	OWN/PL	
				OLD	See endnote <sup>10</sup>
				OLD	See endnote <sup>11</sup>
				OLD	See endnote <sup>12</sup>
				OLD	See endnote <sup>13</sup>
				OLD	See endnote <sup>14</sup>

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.2600	Skin sensitization	45089929		OLD	See endnote <sup>15</sup>

**GENERIC DATA REQUIREMENTS**

850.2100	Acute Avian Oral Toxicity	45089908 50539905	Valent USA LLC	OLD PAY	See endnote <sup>16</sup>
850.2200	Acute Avian Dietary Toxicity	45089909 45089910		OLD OLD	See endnote <sup>17</sup>
850.2400	Wild Mammal Toxicity				See 870 series
850.2300	Avian Reproductive Toxicity	45621606 45621607		OLD OLD	See endnote <sup>18</sup>
850.2500	Simulated or Actual Field Testing				Not required
850.1075	Freshwater Fish Toxicity	45089913 46059001 46059002		OLD OLD OLD	See endnote <sup>19</sup>
850.1010	Freshwater Invertebrate Toxicity	45089914 45621609		OLD OLD	See endnote <sup>20</sup>
850.1025, 850.1035, 850.1045, 850.1055, 850.1075	Acute Toxicity Estuarine and Marine Organisms	45621608 45621610 45621611 46732201	Valent USA LLC	OLD OLD OLD PAY	See endnote <sup>21</sup>
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)	46497901	Valent USA LLC	PAY	See endnote <sup>22</sup>
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)	45621612		OLD	See endnote <sup>23</sup>

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
				OLD	See endnote <sup>15</sup>
			Valent USA LLC	OLD PAY	See endnote <sup>16</sup>
				OLD OLD	See endnote <sup>17</sup>
					See 870 series
				OLD OLD	See endnote <sup>18</sup>
					Not required
				OLD OLD OLD	See endnote <sup>19</sup>
				OLD OLD	See endnote <sup>20</sup>
			Valent USA LLC	OLD OLD OLD PAY	See endnote <sup>21</sup>
			Valent USA LLC	PAY	See endnote <sup>22</sup>
				OLD	See endnote <sup>23</sup>

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1400	Fish Early Life Stage (Freshwater)	45621614		OLD	See endnote <sup>24</sup>
850.1400	Fish Early Life Stage (Saltwater)				Not required <sup>25</sup>
850.1500	Life Cycle Fish				Not required <sup>26</sup>
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification, Toxicity	45621615 46299907	Valent USA LLC	OLD PAY	See endnote <sup>27</sup>
850.1950	Simulated or Actual Field Testing for Aquatic Organisms	45621616		OLD	See endnote <sup>28</sup>
850.1735	Whole Sediment: Acute Freshwater Invertebrates	45621707 47837702	Valent USA LLC	OLD PAY	See endnote <sup>29</sup>
850.1740	Whole Sediment: Acute Marine Invertebrates				Not required
N/A	Whole Sediment: Chronic Invertebrate Freshwater and Marine	47837701 50539901	Valent USA LLC Valent USA LLC	PAY PAY GAP	See endnote <sup>30</sup>
850.3020	Honey Bee Acute Contact Toxicity	45621706		OLD	See endnote <sup>31</sup>
850.3030	Honeybee Toxicity of Residues on Foliage				Reserved <sup>32</sup>
850.3040	Field Testing for Pollinators				Reserved <sup>33</sup>
Non-guideline	Honey Bee Acute Oral Toxicity	45621706		OLD	See endnote <sup>34</sup>
Non-guideline	Honey Bee Larvae Acute Oral Toxicity	50539908	Valent USA LLC	PAY	See endnote <sup>35</sup>
Non-guideline	Honey Bee Adult Chronic Oral Toxicity	50539907	Valent USA LLC	PAY	See endnote <sup>36</sup>
Non-guideline	Honey Bee Larvae Chronic Oral Toxicity	50539908	Valent USA LLC	PAY	See endnote <sup>37</sup>
Non-guideline	Residues in Pollen and Nectar/Field Residue Analysis				Reserved <sup>38</sup>

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
				OLD	See endnote <sup>24</sup>
					Not required <sup>25</sup>
					Not required <sup>26</sup>
			Valent USA LLC	OLD PAY	See endnote <sup>27</sup>
				OLD	See endnote <sup>28</sup>
			Valent USA LLC	OLD PAY	See endnote <sup>29</sup>
					Not required
			Valent USA LLC Valent USA LLC	PAY PAY GAP	See endnote <sup>30</sup>
				OLD	See endnote <sup>31</sup>
					Reserved <sup>32</sup>
					Reserved <sup>33</sup>
				OLD	See endnote <sup>34</sup>
			Valent USA LLC	PAY	See endnote <sup>35</sup>
			Valent USA LLC	PAY	See endnote <sup>36</sup>
			Valent USA LLC	PAY	See endnote <sup>37</sup>
					Reserved <sup>38</sup>

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Non-guideline	Semi-Field Testing for Pollinators				Reserved <sup>39</sup>
870.6100	Delayed Neurotoxicity (Acute) – Hen				Not required
870.6200	Acute Neurotoxicity – Rat	48769402	Valent USA LLC	PAY	See endnote <sup>40</sup>
870.3100	90-Day Oral: Rodent	45089931		OLD	See endnote <sup>41</sup>
		45089934		OLD	
		45089935		OLD	
		45089936		OLD	
		45089938		OLD	
		45089939		OLD	
870.3150	90-Day Oral: Non-Rodent	45089932		OLD	See endnote <sup>42</sup>
		45089933		OLD	
870.3200	21/28-Day Dermal Toxicity	45089941		OLD	See endnote <sup>43</sup>
870.3250	90-Day Dermal Toxicity				Not required
870.3465	90-Day Inhalation Toxicity	50154202	Valent USA LLC	PAY	
870.6100	28-Day Delayed Neurotoxicity Hen				Not required
870.6200	90-Day Neurotoxicity	48769403	Valent USA LLC	PAY	See endnote <sup>44</sup>
870.4100	Chronic Oral Rodent	45571802		OLD	See endnote <sup>45</sup>
870.4200	Carcinogenicity	45571801		OLD	See endnote <sup>46</sup>
		45571802		OLD	

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
					Reserved <sup>39</sup>
					Not required
			Valent USA LLC	PAY	See endnote <sup>40</sup>
				OLD	See endnote <sup>41</sup>
				OLD	
				OLD	
				OLD	
				OLD	
				OLD	
				OLD	See endnote <sup>42</sup>
				OLD	See endnote <sup>43</sup>
				Not required	
			Valent USA LLC	PAY	
					Not required
			Valent USA LLC	PAY	See endnote <sup>44</sup>
				OLD	See endnote <sup>45</sup>
				OLD	See endnote <sup>46</sup>
				OLD	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3700	Reproduction/Developmental Toxicity Screening Test	45090002 45090003 45090004 45090005		OLD OLD OLD OLD	See endnote <sup>47</sup>
870.3800	2-Generation Reproduction: Rat	45090006 45090007		OLD OLD	See endnote <sup>48</sup>
870.6300	Developmental Neurotoxicity Study				Not required
870.5100	Bacterial Reverse Mutation Test	45090015 45250905		OLD OLD	See endnote <sup>49</sup>
870.5300, 870.5375	<i>In vitro</i> Mammalian Cell Assay	45090013 45250904		OLD OLD	See endnote <sup>50</sup>
870.5385, 870.5395, 870.5450, 870.5550	<i>In vivo</i> Cytogenetics and Other Effects	45090010 45090014		OLD OLD	See endnote <sup>51</sup>
870.7485	Metabolism and Pharmacokinetics	45090016		OLD	See endnote <sup>52</sup>
870.7200	Companion Animal Safety				Not required
870.7600	Dermal Penetration				Not required
870.7800	Immunotoxicity	48769406	Valent USA LLC	PAY	See endnote <sup>53</sup>
875.1100	Dermal Exposure – Outdoor		Agricultural Handlers Exposure TF	OWN	See endnote <sup>54</sup>
875.1200	Dermal Exposure - Indoor				Not required
875.1300	Inhalation Exposure – Outdoor		Agricultural Handlers Exposure TF	OWN	See endnote <sup>54</sup>
875.1400	Inhalation Exposure - Indoor				Not required

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				OLD OLD OLD OLD	See endnote <sup>47</sup>
				OLD OLD	See endnote <sup>48</sup>
					Not required
				OLD OLD	See endnote <sup>49</sup>
				OLD OLD	See endnote <sup>50</sup>
				OLD OLD	See endnote <sup>51</sup>
				OLD	See endnote <sup>52</sup>
					Not required
					Not required
			Valent USA LLC	PAY	See endnote <sup>53</sup>
			Agricultural Handlers Exposure TF	OWN	See endnote <sup>54</sup>
					Not required
			Agricultural Handlers Exposure TF	OWN	See endnote <sup>54</sup>
					Not required

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Applicant's/Registrant's Name & Address CAC Chemical Americas, LLC 7 Castle View Court Rye Brook, NY 10573	Product CAC Etoxazole Technical	
Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.1500	Biological Monitoring		Agricultural Handlers Exposure TF	OWN	See endnote <sup>54</sup>
875.1600	Data Reporting and Calculations		Agricultural Handlers Exposure TF	OWN	See endnote <sup>54</sup>
875.1700	Product Use Information		Agricultural Handlers Exposure TF	OWN	See endnote <sup>54</sup>
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues				Not required <sup>55</sup>
875.2200	Soil Residue Dissipation		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote <sup>56</sup>
875.2400	Dermal Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote <sup>56</sup>
875.2500	Inhalation Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote <sup>56</sup>
875.2600	Biological Monitoring		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote <sup>56</sup>
875.2700	Product Use Information		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote <sup>56</sup>
875.2800	Descriptions of Human Activity		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote <sup>56</sup>
875.2900	Data Reporting and Calculations		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote <sup>56</sup>
875.3000	Nondietary Ingestion Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote <sup>56</sup>

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Agricultural Handlers Exposure TF	OWN	See endnote <sup>54</sup>
			Agricultural Handlers Exposure TF	OWN	See endnote <sup>54</sup>
			Agricultural Handlers Exposure TF	OWN	See endnote <sup>54</sup>
					Not required <sup>55</sup>
			Agricultural Reentry TF	OWN	See endnote <sup>56</sup>
			Outdoor Residential Exposure TF	OWN	
			Agricultural Reentry TF	OWN	See endnote <sup>56</sup>
			Outdoor Residential Exposure TF	OWN	
			Agricultural Reentry TF	OWN	See endnote <sup>56</sup>
			Outdoor Residential Exposure TF	OWN	
			Agricultural Reentry TF	OWN	See endnote <sup>56</sup>
			Outdoor Residential Exposure TF	OWN	
			Agricultural Reentry TF	OWN	See endnote <sup>56</sup>
			Outdoor Residential Exposure TF	OWN	
			Agricultural Reentry TF	OWN	See endnote <sup>56</sup>

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

201-1	Droplet Size Spectrum	42565901	OLD	
		42608401	OLD	
		42907401	OLD	
		43254001	OLD	
		43485601	OLD	
		43485602	OLD	
		43485603	OLD	
		43485604	OLD	
		43493801	OLD	
		43493802	OLD	
		43508001	OLD	
		43535801	OLD	
		43535802	OLD	
		43657601	OLD	
		43657602	OLD	
		43665401	OLD	
		43665402	OLD	
		43757801	OLD	
		43757802	OLD	
		43766501	OLD	
		43766502	OLD	
		43766503	OLD	
		43766504	OLD	

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

201-1	Droplet Size Spectrum (cont.)	43781101	OLD	
		43803501	OLD	
		43832101	OLD	
		43832102	OLD	
		43845501	OLD	
		43845901	OLD	
		43925701	OLD	
		43953001	OLD	
		43953002	OLD	
		44010201	OLD	
		44070001	OLD	
		44100901	OLD	
		44134101	OLD	
		44178701	OLD	
		44310401	OLD	
		44640801	OLD	
		44640901	OLD	
		44641001	OLD	
		44696901	OLD	
		44747401	OLD	
		44763001	OLD	
		44878601	OLD	
		44908901	OLD	

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
201-1	Droplet Size Spectrum (cont.)	45536001		OLD	
202-1	Droplet Size Spectrum				See 201-1
850.4100	Tier 1: Seedling Emergence	45621623 50539902	Valent USA LLC	OLD PAY	See endnote <sup>57</sup>
850.4150	Tier 1: Vegetative Vigor	45621701 50539903	Valent USA LLC	OLD PAY	See endnote <sup>58</sup>
850.4400, 850.4500	Tier 1: Aquatic Plant Growth	45621702 45621703 45621704 48578301 48578303 48603001 50675501	Valent USA LLC Valent USA LLC Valent USA LLC Valent USA LLC	OLD OLD OLD PAY PAY PAY PAY	See endnote <sup>59</sup>
850.4100	Tier 2: Seedling Emergence	45621623 50539902	Valent USA LLC	OLD PAY	See endnote <sup>60</sup>
850.4150	Tier 2: Vegetative Vigor	45621701 50539903	Valent USA LLC	OLD PAY	See endnote <sup>61</sup>

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
				OLD	
					See 201-1
			Valent USA LLC	OLD PAY	See endnote <sup>57</sup>
			Valent USA LLC	OLD PAY	See endnote <sup>58</sup>
			Valent USA LLC Valent USA LLC Valent USA LLC Valent USA LLC	OLD OLD OLD PAY PAY PAY PAY	See endnote <sup>59</sup>
			Valent USA LLC	OLD PAY	See endnote <sup>60</sup>
			Valent USA LLC	OLD PAY	See endnote <sup>61</sup>

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.4400, 850.4500	Tier 2: Aquatic Plant Growth	45621702 45621703 45621704 48578301 48578303 48603001 50675501	Valent USA LLC Valent USA LLC Valent USA LLC Valent USA LLC	OLD OLD OLD PAY PAY PAY PAY	See endnote <sup>62</sup>
850.4550	Cyanobacteria Toxicity			GAP	See endnote <sup>63</sup>
850.4300	Terrestrial Field				Not required
850.4450	Aquatic Field				Not required
850.4025	Target Area Phytotoxicity				Not required
835.2120	Hydrolysis	45090017		OLD	See endnote <sup>64</sup>
835.2240	Photodegradation in Water	46658101	Valent USA LLC	PAY	See endnote <sup>65</sup>
835.2410	Photodegradation in Soil	45090020 46299904	Valent USA LLC	OLD PAY	See endnote <sup>66</sup>
835.2370	Photodegradation in Air				Not required
835.4100	Aerobic Soil Metabolism	45090019 45090021 45090022		OLD OLD OLD	See endnote <sup>67</sup>
835.4200	Anaerobic Soil Metabolism	45090023		OLD	See endnote <sup>68</sup>
835.4300	Aerobic Aquatic Metabolism	49958101	Valent USA LLC	PAY	See endnote <sup>69</sup>

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
				OLD	See endnote <sup>62</sup>
				OLD	
				OLD	
			Valent USA LLC	PAY	
			Valent USA LLC	PAY	
			Valent USA LLC	PAY	See endnote <sup>63</sup>
			Valent USA LLC	PAY	
				GAP	
				OLD	See endnote <sup>64</sup>
			Valent USA LLC	PAY	
				OLD	See endnote <sup>65</sup>
			Valent USA LLC	PAY	
					Not required
				OLD	See endnote <sup>67</sup>
				OLD	
				OLD	
				OLD	See endnote <sup>68</sup>
			Valent USA LLC	PAY	
					See endnote <sup>69</sup>

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.4400	Anaerobic Aquatic Metabolism	45621718		OLD GAP	See endnote <sup>70</sup>
835.1230, 835.1240	Leaching/Adsorption/Desorption	45090024 45090025 45090026 45250906 45250907 45250908 46299905 46299906	Valent USA LLC Valent USA LLC	OLD OLD OLD OLD OLD OLD PAY PAY	See endnote <sup>71</sup>
835.1410	Volatility – Laboratory				Not required <sup>72</sup>
835.8100	Volatility – Field				Not required
835.6100	Soil Field Dissipation Study	45250909 45621721 45621722 45621723		OLD OLD OLD OLD	See endnote <sup>73</sup>
835.6200	Aquatic Sediment Field Dissipation Study				Not required <sup>74</sup>
835.6300	Forest Field Dissipation Study				Not required
835.6400	Combination and Tank Mixes				Not required
835.7100	Ground Water Monitoring				Not required

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
				OLD GAP	See endnote <sup>70</sup>
			Valent USA LLC Valent USA LLC	OLD OLD OLD OLD OLD OLD	See endnote <sup>71</sup>
				PAY	
				PAY	
					Not required <sup>72</sup>
					Not required
				OLD OLD OLD OLD	See endnote <sup>73</sup>
					Not required <sup>74</sup>
					Not required
					Not required
					Not required

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.6100	Environmental Chemistry Methods	45621719	Valent USA LLC	OLD	See endnote <sup>75</sup>
		45621720		OLD	
		45621721		OLD	
		50539904		PAY	
		50539906		PAY	
860.1300	Nature of the Residue: Plants	45621807	Valent USA LLC	OLD	
		45621808		OLD	
		45621809		OLD	
		45621810		OLD	
		46299908		PAY	
		46299909		PAY	
860.1300	Nature of the Residue: Livestock	45621811		OLD	
		45621812		OLD	
860.1850	Confined Rotational Crops	45621724	Valent USA LLC	OLD	
		48134302		PAY	

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
				OLD	See endnote <sup>75</sup>
				OLD	
				OLD	
			Valent USA LLC	PAY	
			Valent USA LLC	PAY	
				OLD	
				OLD	
				OLD	
			Valent USA LLC	PAY	
			Valent USA LLC	PAY	
				OLD	
				OLD	
				OLD	
			Valent USA LLC	PAY	

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1340	Residue Analytical Methods	45621725	Valent USA LLC	OLD	
		45621801		OLD	
		45621802		OLD	
		45621813		OLD	
		45621814		OLD	
		45621815		OLD	
		45621816		OLD	
		45621817		OLD	
		49596801		PAY	
860.1360	Multiresidue Method	45621825		OLD	
860.1380	Storage Stability	45621806		OLD	
		45621818		OLD	
860.1500	Magnitude of the Residue in Plants: Corn (field, pop, seed, sweet)	48226202 50121401	Valent USA LLC IR-4	PAY PL	
860.1500	Magnitude of the Residue in Plants: Cottonseed (Crop subgroup 20C)	45621823		OLD	
860.1500	Magnitude of the Residue in Plants: Hops	47003603	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: Mint	47406205	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: Soybean	49596802	Valent USA LLC	PAY	
860.1500	Magnitude of the Residue in Plants: Tomato (indoor)	47406204	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: Pepper/Eggplant (Crop Subgroup 8-10B)	47945802	IR-4	PL	

Signature 	Name and Title Ann M. Tillman   Regulatory Consultant	Date Oct. 29, 2018
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DATA MATRIX

Date Oct. 29, 2018	EPA Reg No./File Symbol 92044-	Page 14 of 20
Applicant's/Registrant's Name & Address CAC Chemical Americas, LLC 7 Castle View Court Rye Brook, NY 10573	Product CAC Etoxazole Technical	
Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Valent USA LLC	OLD	
				OLD	
				OLD	
				OLD	
				OLD	
				OLD	
				OLD	
				OLD	
				PAY	
				OLD	
				OLD	
				OLD	
			Valent USA LLC IR-4	PAY PL	
				OLD	
			IR-4	PL	
			IR-4	PL	
			Valent USA LLC	PAY	
			IR-4	PL	
			IR-4	PL	

Signature 	Name and Title Ann M. Tillman   Regulatory Consultant	Date Oct. 29, 2018
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**DATA MATRIX**

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Applicant's/Registrant's Name & Address CAC Chemical Americas, LLC 7 Castle View Court Rye Brook, NY 10573	Product CAC Etoxazole Technical	
Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: Cucurbit Vegetables (Crop Group 9)	47003602 47406203 47945801	IR-4 IR-4 IR-4	PL PL PL	
860.1500	Magnitude of the Residue in Plants: Pome Fruit (Crop Group 11)	45621804 45621805		OLD OLD	
860.1500	Magnitude of the Residue in Plants: Stone Fruit (Crop Group 12, including subgroup 12-12A, 12-12B and 12-12C)	47003601 47406201 47406202 48363001	IR-4 IR-4 IR-4 Valent USA LLC	PL PL PL PAY	
860.1500	Magnitude of the Residue in Plants: Caneberry (Crop Subgroup 13-07A)	47945804	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: Small Fruit Vine Climbing, except Fuzzy Kiwifruit (Crop Subgroup 13-07F)	46018506		OLD	
860.1500	Magnitude of the Residue in Plants: Low-growing Berry (Crop Subgroup 13-07G)	45621824		OLD	
860.1500	Magnitude of the Residue in Plants: Tree Nuts (Crop Group 14-12)	46018505 46018507		OLD OLD	
860.1500	Magnitude of the Residue in Plants: Tropical and Subtropical Fruit (see label for specific uses)	47945803	IR-4	PL	
860.1520	Magnitude of the Residue in Processed Food or Feed: Corn	48226202	Valent USA LLC	PAY	
860.1520	Magnitude of the Residue in Processed Food or Feed: Cotton	45621823		OLD	

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DATA MATRIX

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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			IR-4	PL	
			IR-4	PL	
			IR-4	PL	
				OLD OLD	
			IR-4	PL	
			IR-4	PL	
			IR-4	PL	
			Valent USA LLC	PAY	
			IR-4	PL	
				OLD	
				OLD	
				OLD OLD	
			IR-4	PL	
			Valent USA LLC	PAY	
				OLD	

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**DATA MATRIX**

Date Oct. 29, 2018	EPA Reg No./File Symbol 92044-	Page 16 of 20
Applicant's/Registrant's Name & Address CAC Chemical Americas, LLC 7 Castle View Court Rye Brook, NY 10573	Product CAC Etoxazole Technical	
Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: Mint	47406205	IR-4	PL	
860.1520	Magnitude of the Residue in Processed Food or Feed: Soybean	49596802	Valent USA LLC	PAY	
860.1520	Magnitude of the Residue in Processed Food or Feed: Tomato	47406204	IR-4	PL	
860.1520	Magnitude of the Residue in Processed Food or Feed: Pome Fruit	45621804		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: Stone Fruit	47406201 48363001	IR-4 Valent USA LLC	PL PAY	
860.1520	Magnitude of the Residue in Processed Food or Feed: Small Fruit Vine Climbing, except Fuzzy Kiwifruit (Crop Subgroup 13-07F)	46018506		OLD	
860.1480	Magnitude of the Residue in Meat, Milk, Poultry, and Eggs	45621803		OLD	
860.1400	Nature and Magnitude of the Residue in Potable Water				Not required
860.1400	Magnitude of the Residue in Fish				Not required
860.1400	Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water				Not required
860.1460	Magnitude of the Residue in Food Handling Establishments				Not required
860.1900	Field Rotational Crops				Not required

Signature 	Name and Title Ann M. Tillman   Regulatory Consultant	Date Oct. 29, 2018
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DATA MATRIX

Date Oct. 29, 2018	EPA Reg No./File Symbol 92044-	Page 16 of 20
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Ingredient: Etoxazole (CAS No. 153233-91-1; PC Code 107091)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			IR-4	PL	
			Valent USA LLC	PAY	
			IR-4	PL	
				OLD	
			IR-4 Valent USA LLC	PL PAY	
				OLD	
				OLD	
					Not required
					Not required
					Not required
					Not required
					Not required

Signature 	Name and Title Ann M. Tillman   Regulatory Consultant	Date Oct. 29, 2018
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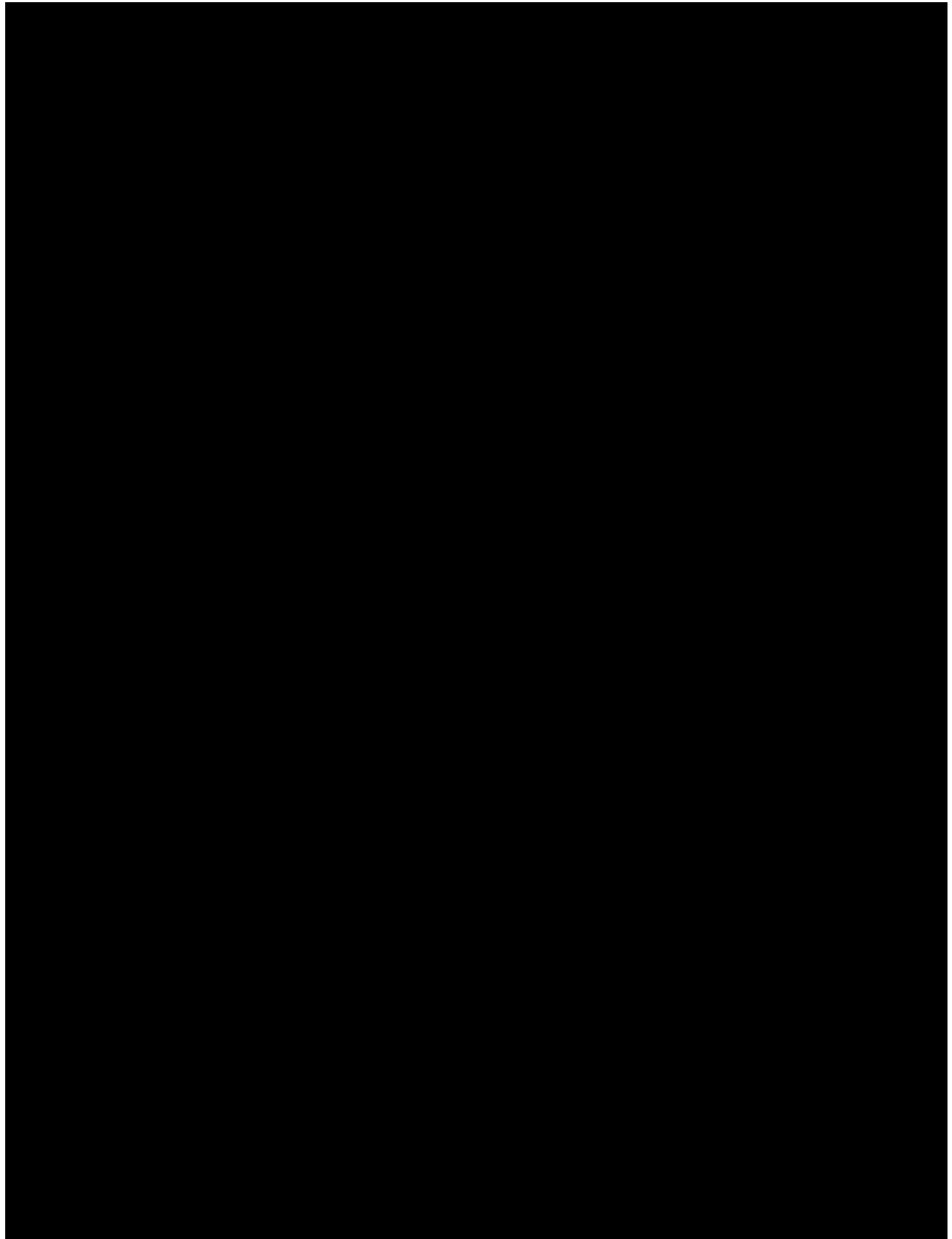


## Endnotes for Data Matrix for CAC Etoxazole Technical

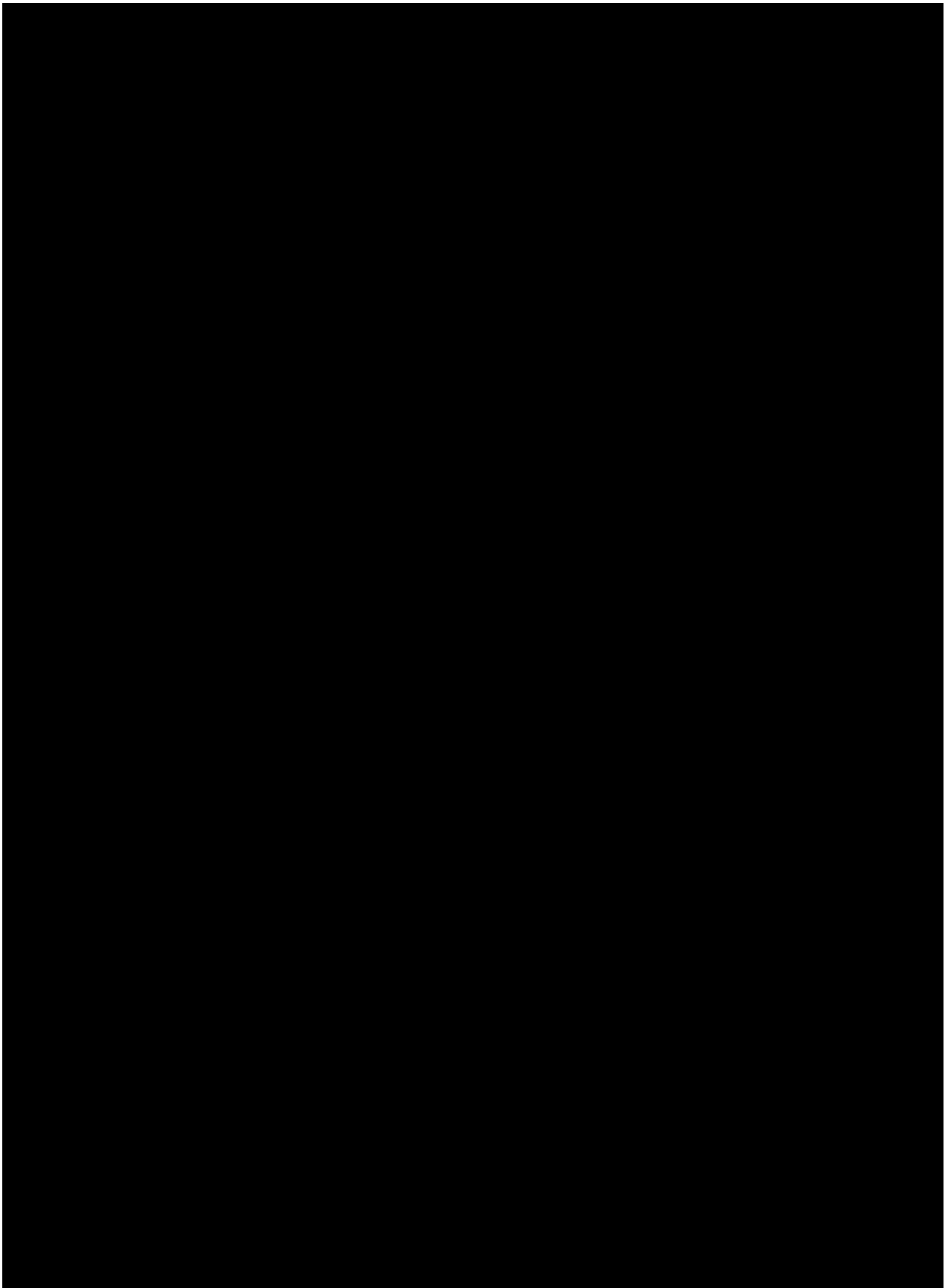
- <sup>1</sup> **830.1650** – These data are not required for the registration of a manufacturing use product. See 830.1620 for production process information.
- <sup>2</sup> **830.6315** –CAC Chemical Americas, Inc. requests a waiver from this data requirement since CAC Etoxazole Technical is a solid and does not contain flammable components. Please refer to the Confidential Statement of Formula for CAC Etoxazole Technical.
- <sup>3</sup> **830.6316** – Etoxazole does not have the chemical bonds or functional groups associated with explosive chemicals. None of the components in CAC Etoxazole Technical are explosive therefore, these data are not required. Please refer to the Confidential Statement of Formula for CAC Etoxazole Technical.
- <sup>4</sup> **830.6319** –The product is not an emulsifiable liquid that will be diluted with petroleum solvents. Therefore, these data are not applicable nor are these data required.
- <sup>5</sup> **830.6321** – This product is not proposed for use around electrical equipment. Therefore, these data are not applicable nor are these data required.
- <sup>6</sup> **830.7100** – These data are required when the product is a liquid. CAC Etoxazole Technical is a solid, therefore these data are not required.
- <sup>7</sup> **830.7220** – This data requirement is not applicable to CAC Etoxazole Technical because it is a solid.
- <sup>8</sup> **830.7370** – These data are not required for CAC Etoxazole Technical because etoxazole does not contain any functional groups that dissociate.
- <sup>9</sup> **830.7520** – This product is not a fibrous material and is not water insoluble. Therefore, these data are not applicable nor are these data required.
- <sup>10</sup> **870.1100** – The study cited is acceptable and satisfies the data requirement as per the June 26, 2014 Etoxazole Human-Health Assessment Scoping Document in Support of Registration Review (DP Barcode D418224) (Scoping Document).
- <sup>11</sup> **870.1200** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- <sup>12</sup> **870.1300** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- <sup>13</sup> **870.2400** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- <sup>14</sup> **870.2500** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- <sup>15</sup> **870.2600** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- <sup>16</sup> **850.2100** – MRID 45089908 is acceptable and satisfies the data requirement as per the July 1, 2014 Registration Review – Preliminary Problem Formulation for the Ecological Risk Assessment and Drinking Water Exposure Assessment to be Conducted for Etoxazole (DP Barcode D418231) (Problem Formulation). MRID 50539905 appears to have been submitted in response to the Registration Review Data Call-In (DCI).
- <sup>17</sup> **850.2200** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.
- <sup>18</sup> **850.2300** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the Problem Formulation.
- <sup>19</sup> **850.1075** – MRID 45089913 and 46059001 are acceptable or supplemental but satisfy the data requirement as per the Problem Formulation; unacceptable data are not cited. MRID 46059002 is also cited.

## Endnotes for Data Matrix for CAC Etoxazole Technical

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- <sup>20</sup> **850.1010** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the Problem Formulation. MRID 46059001 appears to have been incorrectly cited in the Problem Formulation for aquatic invertebrate; this study is cited under OPPTS 850.1075.
- <sup>21</sup> **850.1025, 850.1035, 850.1045, 850.1055, 850.1075** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.
- <sup>22</sup> **850.1300** – The study cited is supplemental but satisfies the data requirement as per the Problem Formulation; unacceptable data are not cited.
- <sup>23</sup> **850.1350** – The study cited is supplemental but satisfies the data requirement as per the Problem Formulation.
- <sup>24</sup> **850.1400** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- <sup>25</sup> **850.1400** – These data are not required as per the Problem Formulation.
- <sup>26</sup> **850.1500** – These data are not required as per the Problem Formulation.
- <sup>27</sup> **850.1710, 850.1730, 850.1850** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation. Note: the MRID references in the Problem Formulation appear to be in error and the correct MRID numbers are cited.
- <sup>28</sup> **850.1950** – The study cited is supplemental but satisfies the data requirement as per the Problem Formulation.
- <sup>29</sup> **850.1735** – The studies cited are supplemental but satisfy the data requirement as per the Problem Formulation.
- <sup>30</sup> **N/A** – MRID 47837701 is acceptable and partially satisfies the data requirement as per the Problem Formulation. MRID 50539901 appears to have been submitted in response to the DCI and additional data are still required. After CAC's registration is approved, CAC will make an offer to jointly develop these data.
- <sup>31</sup> **850.3020** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation. Nonguideline beneficial insect data are not required and are not cited.
- <sup>32</sup> **850.3030** – These data are identified as higher tiered pollinator data and the need for higher tiered data will be based on the results of lower tier tests.
- <sup>33</sup> **850.3040** – These data are identified as higher tiered pollinator data and the need for higher tiered data will be based on the results of lower tier tests.
- <sup>34</sup> **Non-guideline** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation. Nonguideline beneficial insect data are not required and are not cited.
- <sup>35</sup> **Non-guideline** – The study cited appears to have been submitted in response to the DCI.
- <sup>36</sup> **Non-guideline** – The study cited appears to have been submitted in response to the DCI.
- <sup>37</sup> **Non-guideline** – The study cited appears to have been submitted in response to the DCI.
- <sup>38</sup> **Non-guideline** – These data are identified as higher tiered pollinator data and the need for higher tiered data will be based on the results of lower tier tests.
- <sup>39</sup> **Non-guideline** – These data are identified as higher tiered pollinator data and the need for higher tiered data will be based on the results of lower tier tests.
- <sup>40</sup> **870.6200** – The study cited is in review as per the Scoping Document.
- <sup>41</sup> **870.3100** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- <sup>42</sup> **870.3150** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.



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- <sup>43</sup> **870.3200** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- <sup>44</sup> **870.6200** – The study cited is in review as per the Scoping Document.
- <sup>45</sup> **870.4100** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document; unacceptable data are not cited. In addition, chronic dog data are not cited as these data are no longer required per the 2007 revisions to 40 CFR Part 158.
- <sup>46</sup> **870.4200** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document; unacceptable data are not cited.
- <sup>47</sup> **870.3700** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- <sup>48</sup> **870.3800** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- <sup>49</sup> **870.5100** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- <sup>50</sup> **870.5300, 830.5375** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- <sup>51</sup> **870.5385, 870.5395, 870.5450, 870.5550** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- <sup>52</sup> **870.7485** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- <sup>53</sup> **870.7800** – The study cited is in review as per the Scoping Document.
- <sup>54</sup> **875.1100, 875.1300, 875.1500, 875.1600, 875.1700** – CAC Chemical Americas LLC is a licensee in good standing with the Agricultural Handlers Exposure Task Force.
- <sup>55</sup> **875.2100** – As per the Sept. 23, 2011 Etoxazole Human Health Risk Assessment for Proposed Uses in/on Field Corn and Pop Corn (DP Barcode D385425) (2011 Human Health RA), no data have been submitted nor are data required.
- <sup>56</sup> **875.2200, 875.2400, 875.2500, 875.2600, 875.2700, 875.2800, 875.2900, 875.3000** – CAC Chemical Americas LLC is a licensee in good standing with the Agricultural Reentry Task Force and the Outdoor Residential Exposure Task Force.
- <sup>57</sup> **850.4100** – MRID 45621623 is acceptable but additional data are required as per the Problem Formulation; these data appear to have been submitted under MRID 50539902 and are cited.
- <sup>58</sup> **850.4150** – MRID 45621701 is acceptable but additional data are required as per the Problem Formulation; these data appear to have been submitted under MRID 50539903 and are cited.
- <sup>59</sup> **850.4400, 850.4500** – The studies cited are acceptable or supplemental and partially satisfy the data requirement as per the Problem Formulation. It appears MRID 50675501 was submitted to fully satisfy the data requirement.
- <sup>60</sup> **850.4100** – MRID 45621623 is acceptable but additional data are required as per the Problem Formulation; these data appear to have been submitted under MRID 50539902 and are cited.
- <sup>61</sup> **850.4150** – MRID 45621701 is acceptable but additional data are required as per the Problem Formulation; these data appear to have been submitted under MRID 50539903 and are cited.
- <sup>62</sup> **850.4400, 850.4500** – The studies cited are acceptable or supplemental and partially satisfy the data requirement as per the Problem Formulation. It appears MRID 50675501 was submitted to fully satisfy the data requirement.

[REDACTED]

[REDACTED]

[REDACTED]

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- <sup>63</sup> **850.4550** – The Problem Formulation identified supplemental data that did not satisfy the data requirement and required additional data. After CAC's registration is approved, CAC will make an offer to jointly develop these data.
- <sup>64</sup> **835.2120** – The study cited is supplemental but satisfies the data requirement as per the Problem Formulation.
- <sup>65</sup> **835.2240** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation; unacceptable data are not cited.
- <sup>66</sup> **835.2410** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.
- <sup>67</sup> **835.4100** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the Problem Formulation.
- <sup>68</sup> **835.4200** – The study cited is supplemental but satisfies the data requirement as per the Problem Formulation.
- <sup>69</sup> **835.4300** – The study cited appears to have been submitted in response to the DCI.
- <sup>70</sup> **835.4400** – The study cited is supplemental and partially satisfies the data requirement as per the Problem Formulation. After CAC's registration is approved, CAC will make an offer to jointly develop these data.
- <sup>71</sup> **835.1230, 835.1240** – The studies cited are supplemental but satisfy the data requirement as per the Problem Formulation.
- <sup>72</sup> **835.1410** – These data are not required as per the Problem Formulation.
- <sup>73</sup> **835.6100** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the Problem Formulation.
- <sup>74</sup> **835.6200** – These data are not required as per the Problem Formulation.
- <sup>75</sup> **850.6100** – According to the Problem Formulation, MRIDs 45621719-21 are in review and additional data are required. These data appear to have been submitted under 50539904 and 50539906 and are cited.

